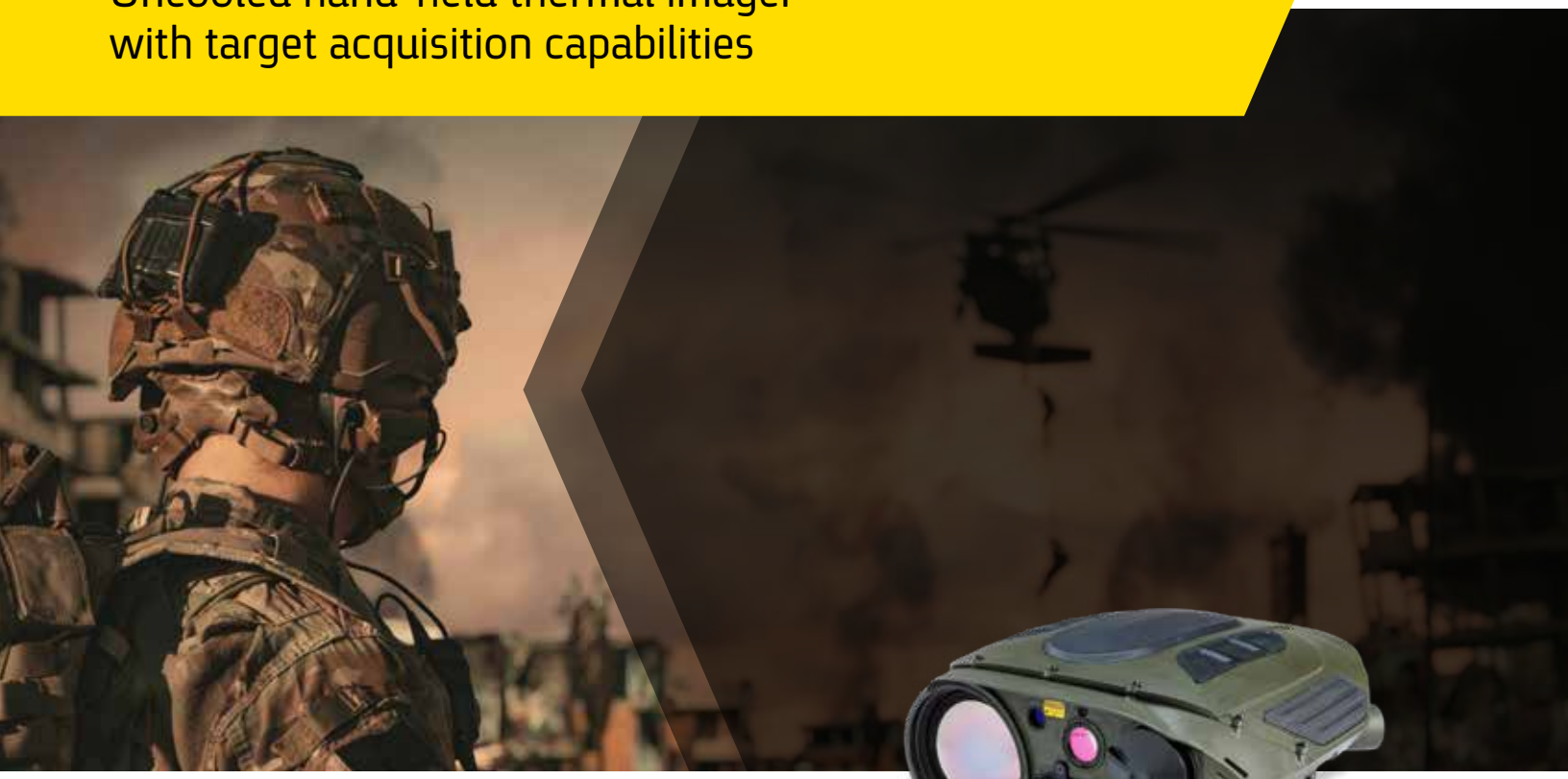
AION UC

Uncooled hand-held thermal imager with target acquisition capabilities



The AION UC is a lightweight, high-performance uncooled thermal handheld observation system.

The solution offers excellent thermal sensitivity for target discrimination and recognition in total darkness or in obscured daylight conditions.

The AION UC is suitable for infantry, scouts and special units operations as well as security and perimeter defense applications.

Elbit Systems™

Security & Tactical EO Solutions – ELSEC

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System Capabilities

The AION UC incorporates day/night observation and targeting capabilities for NATO targets at distances up to 5,000m. The system enables real-time calculation of target coordinates, featuring an integrated digital magnetic compass and GPS and advanced image processing capabilities with area of interest (AOI) algorithm and automatic gain control. The solution incorporates two observation channels, video recording capability of up to 8 hours and an integrated target data bank.

Key Features

- NUC-less and shutter-less thermal channel
- Video recording capability
- BT and WiFi transmission
- Advanced image processing
- Digital zoom

Key Benefits

- Real-time targeting capabilities
- Excellent thermal sensitivity
- Lightweight
- Target data storage
- Qualified to MIL-STD-810

Technical Specifications

Thermal Imager

Spectral band	8 – 12µm
IR detector	Uncooled 640 x 480 VOx Microbolometer
Sensor resolution	VGA 640 x 480
FOV	6.23° x 4.67° (±0.5°)

Color Day Channel

Continuous zoom	x 3.2
NFOV	3.9°x 2.9° (±0.2°)
WFOV	12.5°x 9.3° (±0.5°)
CCD	5.1 MP

Laser Range Finder

Wavelength	1560nm
Range capability	50m to 5,000m
Eyesafe	Class 1 laser

Laser Pointer

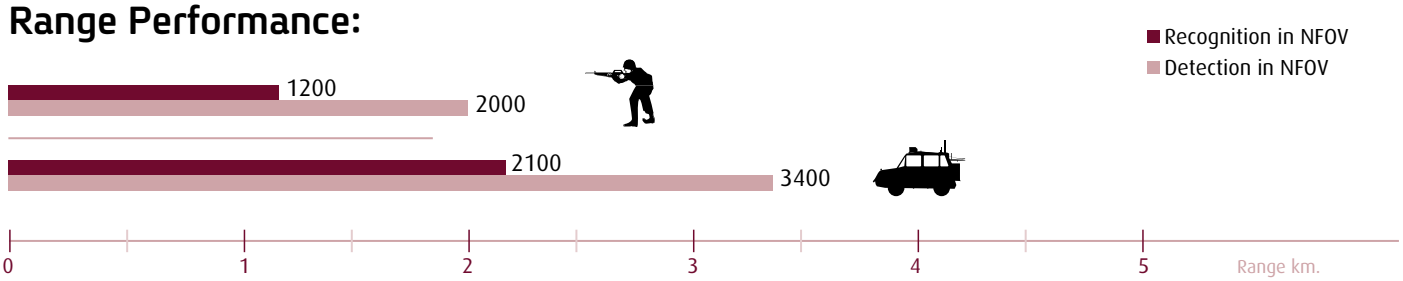
Wavelength	850nm
Classification	Class III

Power

Power sources	Rechargeable/commercial battery (CR123) or AC/DC or DC/DC adaptor
Run time	> 7h

Environmental	Qualified to MIL-STD-810
Weight	<2.3kg incl. battery

Range Performance:



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